



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,090	09/15/2003	Shuang Liu	DM-7007 DIV (BMS-2442)	1668
23914	7590	06/03/2004	EXAMINER	
STEPHEN B. DAVIS BRISTOL-MYERS SQUIBB COMPANY PATENT DEPARTMENT P O BOX 4000 PRINCETON, NJ 08543-4000			JONES, DAMERON LEVEST	
			ART UNIT	PAPER NUMBER
			1616	
DATE MAILED: 06/03/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/663,090	Applicant(s) LIU, SHUANG	
	Examiner D. L. Jones	Art Unit 1616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☒ Claim(s) 1-24 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

Art Unit: 1616

RESTRICTION INTO GROUPS

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-24, drawn to compounds wherein $X = P(=O)R_9$ and $A = CH_2$, classified in class 540, subclass 450+.
 - II. Claims 1-24, drawn to compounds wherein $X = PR_9$ and $A = CH_2$, classified in class 540, subclass 450+.
 - III. Claims 1-24, drawn to compounds wherein $X = GeR_6R_7$ and $A = O$, classified in class 540, subclass 450+.
 - IV. Claims 1-24, drawn to compounds wherein $X = BR_6R_7$ and $A = O$, classified in class 540, subclass 450+.
 - V. Claims 1-24, drawn to compounds wherein $X = SiR_6R_7$ and $A = O$, classified in class 540, subclass 450+.
 - VI. Claims 1-24, drawn to compounds wherein $X = P(=O)R_9$ and $A = O$, classified in class 540, subclass 450+.
 - VII. Claims 1-24, drawn to compounds wherein $X = P(=S)R_9$ and $A = O$, classified in class 540, subclass 450+.
 - VIII. Claims 1-24, drawn to compounds wherein $X = SnR_6R_7$ and $A = O$, classified in class 540, subclass 450+.
 - IX. Claims 1-24, drawn to compounds wherein $X = SiR_6R_7$ and $A = NR_{10}$, classified in class 540, subclass 450+.
 - X. Claims 1-24, drawn to compounds wherein $X = GeR_6R_7$ and $A = NR_{10}$, classified in class 540, subclass 450+.

Art Unit: 1616

- XI. Claims 1-24, drawn to compounds wherein $X = P(=O)R_9$ and $A = NR_{10}$,
classified in class 540, subclass 450+.
- XII. Claims 1-24, drawn to compounds wherein $X = P(=S)R_9$ and $A = NR_{10}$,
classified in class 540, subclass 450+.
- XIII. Claims 1-24, drawn to compounds wherein $X = C(=O)$ and $A = NR_{10}$,
classified in class 540, subclass 450+.
- XIV. Claims 1-24, drawn to compounds wherein $X = SiR_6R_7$ and $A = CH_2$,
classified in class 540, subclass 450+.
- XV. Claims 1-24, drawn to compounds wherein $X = C(=O)$ and $A = CH_2$,
classified in class 540, subclass 450+.
- XVI. Claims 1-24, drawn to compounds wherein $X = NR_8$ and $A = CH_2$,
classified in class 540, subclass 450+.
- XVII. Claims 1-24, drawn to compounds wherein $X = BR_6R_7$ and $A = CH_2$,
classified in class 540, subclass 450+.
- XVIII. Claims 1-24, drawn to compounds wherein $X = AsR_9$ and $A = CH_2$,
classified in class 540, subclass 450+.
- XIX. Claims 1-24, drawn to compounds wherein $X = P(=S)R_9$ and $A = CH_2$,
classified in class 540, subclass 450.
- XX. Claims 1-24, drawn to compounds wherein $X = GeR_6R_7$ and $A = CH_2$,
classified in class 540, subclass 450+.
- XXI. Claims 1-24, drawn to compounds wherein $X = SnR_6R_7$ and $A = CH_2$,
classified in class 540, subclass 450+.

Art Unit: 1616

- XXII. Claims 1-24, drawn to compounds wherein $X = \text{As}(=\text{O})\text{R}_9$ and $A = \text{CH}_2$,
classified in class 540, subclass 450+.
- XXIII. Claims 1-24, drawn to compounds wherein $X = \text{C}(=\text{O})$ and $A = \text{O}$,
classified in class 540, subclass 450+.
- XXIV. Claims 1-24, drawn to compounds wherein $X = \text{NR}_8$ and $A = \text{O}$, classified
in class 540, subclass 450+.
- XXV. Claims 1-24, drawn to compounds wherein $X = \text{PR}_9$ and $A = \text{O}$, classified
in class 540, subclass 450+.
- XXVI. Claims 1-24, drawn to compounds wherein $X = \text{AsR}_9$ and $A = \text{O}$,
classified in class 540, subclass 450+.
- XXVII. Claims 1-24, drawn to compounds wherein $X = \text{As}(=\text{O})\text{R}_9$ and $A = \text{O}$,
classified in class 540, subclass 450+.
- XXVIII. Claims 1-24, drawn to compounds wherein $X = \text{SnR}_6\text{R}_7$ and $A = \text{NR}_{10}$,
classified in class 540, subclass 450+.
- XXIX. Claims 1-24, drawn to compounds wherein $X = \text{NR}_8$ and $A = \text{NR}_{10}$,
classified in class 540, subclass 450+.
- XXX. Claims 1-24, drawn to compounds wherein $X = \text{PR}_9$ and $A = \text{NR}_{10}$,
classified in class 540, subclass 450+.
- XXXI. Claims 1-24, drawn to compounds wherein $X = \text{AsR}_9$ and $A = \text{NR}_{10}$,
classified in class 540, subclass 450+.
- XXXII. Claims 1-24, drawn to compounds wherein $X = \text{BR}_6\text{R}_7$ and $A = \text{NR}_{10}$,
classified in class 540, subclass 450+.

Art Unit: 1616

XXXIII. Claims 1-24, drawn to compounds wherein $X = \text{As}(=\text{O})\text{R}_9$ and $A = \text{NR}_{10}$, classified in class 540, subclass 450+.

Note: Claims appearing in more than one group will only be examined to the extent that they read on the elected invention. In addition, it should be noted the classes and/or subclasses (e.g., 540/450+) will vary depending upon the value assigned to X and A.

2. The inventions are distinct, each from the other because of the following reasons:

Inventions I-XXXIII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the inventions are directed to different compounds which are not obvious over one another because there is no common core and a search of one group of compounds would neither anticipate nor render obvious the compounds of a different group. Thus, the inventions are distinct and a separate search of each invention would be necessary.

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

ELECTION OF SPECIES

4. Claims 1-24 are generic to a plurality of disclosed patentably distinct species comprising the groups of compounds as set forth in the groups above. Hence, a burdensome search would be necessary because the inventions contain various variables that depending upon their value generate compounds not having a common core.. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Note: The Examiner respectfully requests that Applicant elect a single species for search purposes from within the elected group and assign each variable the appropriate value (e.g., R4 = hydrogen; R3 = nitrogen; etc.) and state which claims are directed to the elected species.

5. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

6. Due to the complexity of the restriction requirement, a telephone call was not made to request an oral election to the above restriction requirement.


Art Unit: 1616

7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. L. Jones whose telephone number is (571) 272-0617. The examiner can normally be reached on Mon.-Fri., 6:45 a.m. - 3:15 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on (571) 272-0602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


D. L. Jones
Primary Examiner
Art Unit 1616

May 28, 2004